Contents

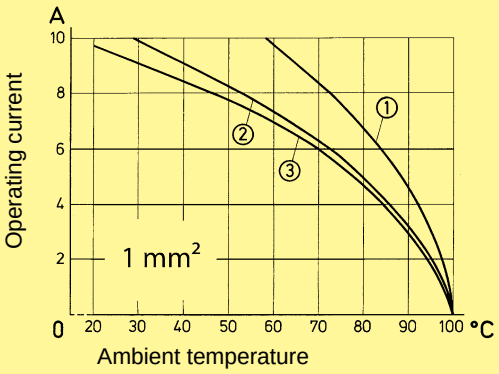
Features

- Degree of protection for hoods/housings for coupled connector: IP 44

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5-2



① Staf® 6

② Staf® 14

③ Staf® 20

Features

Specifications	DIN EN 60 664-1 DIN EN 61 984
Approvals	,

Inserts

Number of contacts	6, 14, 20, 40 (2x20)
Electrical data acc. to EN 61 984	
Rated current	10 A
Rated voltage	~ 25 V / − 60 V
Rated voltage acc. to UL/CSA	50 V
Insulation resistance	≥ 10^{10} Ω
Material	polyamide
Limiting temperatures	-40 °C ... +100 °C
Flammability acc. to UL 94	HB
Mechanical working life	
- mating cycles	≥ 500

Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
Contact resistance	≤ 2 mΩ
Screw terminal	
- Wire gauge[1)]	P P t
- AWG	16
- Tightening/test torque	0.25 Nm
Solder terminal	
- Wire gauge[1)]	P P t
- AWG	14

In accordance with the appropriate regulations a wire-end sleeve has to be used at clamps without wire protection (see „Screw

Hoods/Housings	see chapter 31

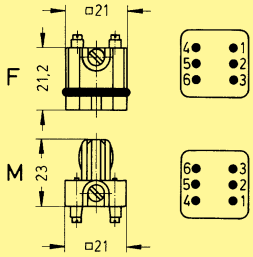
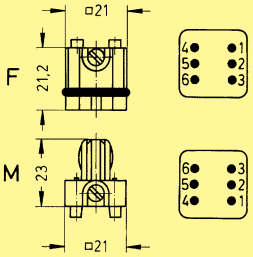
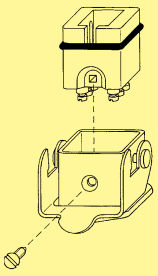
Accessories

Cable clamps	chapter 95
Coding of hoods/housings	chapter 95
Label acc. to CSA-approval	chapter 95

[1)] geometric wire gauge

Number of contacts

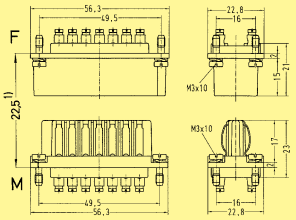
6

Identification	Series	Part number Female Insert (M)	Part number Male insert (F)	Drawing	Dimensions in mm
Screw terminal 	Staf®	**09 70 006 2813**	**09 70 006 2616**	Contact arrangement (view from termination side) 	
Solder terminal 	Staf®	09 70 006 2812	09 70 006 2615	Contact arrangement (view from termination side)  Mounting example 	

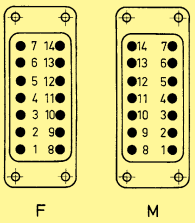
Stock items in bold type

Number of contacts

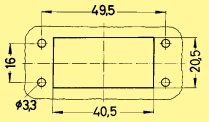
14

Identification	Series	Part number Female Insert (M)	Part number Male insert (F)	Drawing	Dimensions in mm
Screw terminal 	Staf®	**09 70 014 2811**	**09 70 014 2614**	 [1] Distance for contact max. 24 mm	
Solder terminal 	Staf®	**09 70 014 2810**	**09 70 014 2613**		

Contact arrangement (view from termination side)



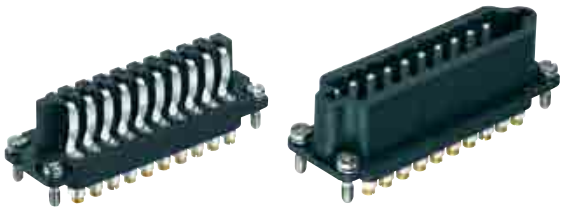
Panel cut out for inserts
for use without hoods/housings

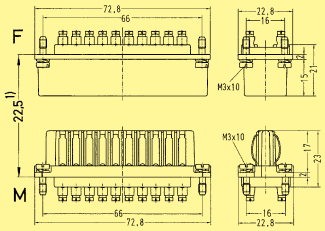
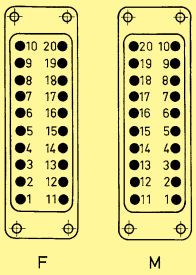
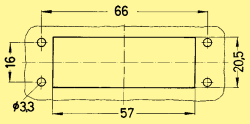


Stock items in bold type

Number of contacts

20

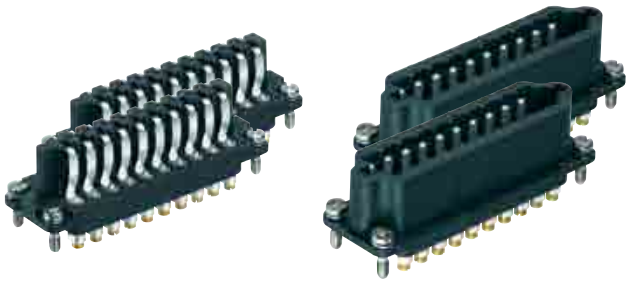


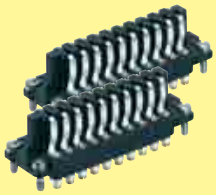
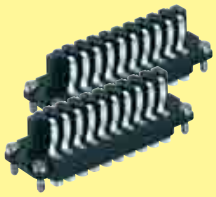
Identification	Series	Part number Female Insert (M)	Part number Male insert (F)	Drawing	Dimensions in mm
Screw terminal 	Staf®	**09 70 020 2817**	09 70 020 2622	 1) Distance for contact max. 24 mm	
Solder terminal 	Staf®	**09 70 020 2816**	**09 70 020 2621**	Contact arrangement (view from termination side)  Panel cut out for inserts for use without hoods/housings 	

Stock items in bold type

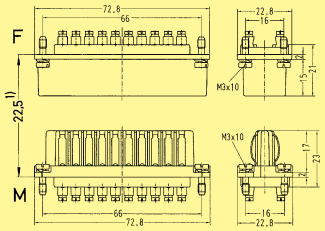
Number of contacts

40



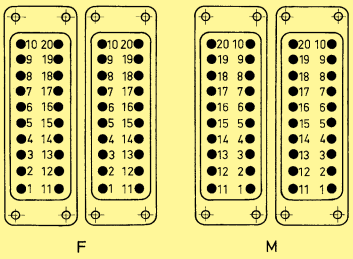
Identification	Series	Part number Female Insert (M)	Part number Male insert (F)
Screw terminal	Staf®		
	1-20	**09 70 020 2817**	09 70 020 2622
	1-20	**09 70 020 2817**	09 70 020 2622
			
Solder terminal	Staf®		
	1-20	**09 70 020 2816**	**09 70 020 2621**
	1-20	**09 70 020 2816**	**09 70 020 2621**
			

Drawing

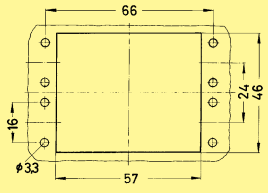


1) Distance for contact max. 24 mm

Contact arrangement (view from termination side)



Panel cut out for inserts
for use without hoods/housings



Dimensions in mm

Stock items in bold type